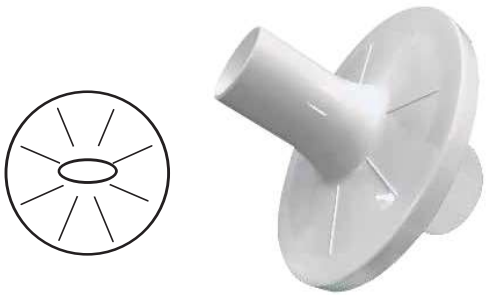
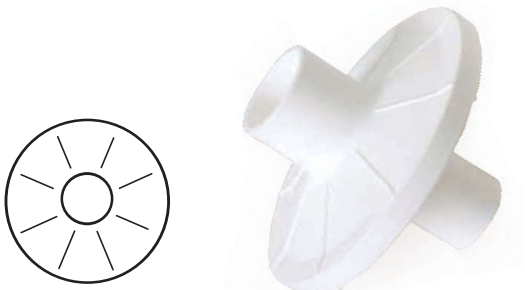
COSMED
The Metabolic Company

Antibacterial filters

The most efficient and affordable solution to prevent Bacterial and Viral Cross Contamination



A 182 300 005 Antibacterial Filter



A 182 300 004 Antibacterial Filter

Technical Specifications		
Product	Antibacterial Filter, Oval Mouthpiece	Antibacterial Filter, Round Mouthpiece
Part number	A 182 300 005	A 182 300 004
Dimensions	Machine side: OD 30.7mm, ID 26mm Patient side: Integral mouthpiece Length: 86mm Width: 97mm	Machine side: OD 30.7mm, ID 26mm Patient side: OD 24.9mm, ID 20.9mm Length: 77mm Width: 97mm
Material	Housing: Polypropylene Filter Media: 200g electrostatic blended synthetic fibre	Housing: Polypropylene Filter Media: 200g electrostatic blended synthetic fibre
Packaging	Confection of 50 filters individually packed in single plastic bags	Confection of 50 filters individually packed in single plastic bags
Pathogenous agents	Bacteria and virus	Bacteria and virus
Bacterial filtration efficiency*	99.999%	99.999%
Viral filtration efficiency*	99.999%	99.999%
Resistance (EN ISO 9360-1)	0.27cmH2O @ 30L/min 0.59cmH2O @60L/min 0.97cmH2O @ 90L/min	0.39cmH2O @ 30L/min 0.74cmH2O @60L/min 1.1cmH2O @ 90L/min
Dead space	75ml	75ml

Application

- Pneumology
- Indirect Calorimetry

Related Products

- Spirometers
- Quark line
- K5/K4 b²
- Fitmate line
- Q-NRG/Q-NRG+

- Single patient use
- Designed for testing adults and children
- High filtration efficiency, limited dead-space, perfect seal and low resistance

Transmission of infections (tuberculosis, nosocomial pneumonia, hepatitis, etc.) is a serious risk during pulmonary function testing, whenever infection-control procedures are not strictly observed. The use of barrier filters represents an effective and less expensive method of preventing cross-contamination.

ATS/ERS Statement provides a helpful guide on how to prevent infections, explicitly recommending that:

"... barrier filter should be used to protect all equipment in contact with expirates from patients, unless the equipment is sterilized or replaced between patients...".

Barrier filters reduce to almost zero the possibility of bacteria and virus cross contamination without altering the mechanical characteristics of the Lung Function equipment.

COSMED filters are complementary with the flowmeters allowing a combined system that reaches a total resistance inferior to those suggested by ATS/ERS for the flowmeter alone (1.5cmH_2O/L/sec @14 L/sec).

Two mouthpiece types, oval and round, guarantee the maximum ergonomics and the compatibility with any equipment connector.

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* *The significance of % filtration efficiency is explained by the number of organisms passing through the filter. If the number of organisms challenging the filter are 1 000 000, when the efficiency is 99.999% only 10 organisms pass through (or only 1 if the efficiency is 99.9999%). A 99.999% filter is therefore 10 times more efficient than 99.99% filter.*